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1 From discrepancy to declustering: Near-optimal multidimensional declustering strategies for range queries
Chung-Min Chen, Christine T. Cheng
January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1
Publisher: ACM Press
Full text available: pdf(225.33 KB) Additional Information: full citation, abstract, references, index terms

Declustering schemes allocate data blocks among multiple disks to enable parallel retrieval. Given a declustering scheme *D*, its *response time* with respect to a query *Q*, *rt* (*Q*), is defined to be the maximum number of data blocks of the query stored by the scheme in any one of the disks. If |*Q*| is the number of data blocks in *Q* and *M* is the number of disks, then *rt*(*Q*) is at least □|*Q*|/*M*□. One way to eval ...

Keywords: Declustering schemes, disk allocations, parallel database, range query

2 Update propagation strategies to improve freshness in lazy master replicated databases
Esther Pacitti, Eric Simon
February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(151.35 KB) Additional Information: full citation, abstract, index terms

Many distributed database applications need to replicate data to improve data availability and query response time. The two-phase commit protocol guarantees mutual consistency of replicated data but does not provide good performance. Lazy replication has been used as an alternative solution in several types of applications such as on-line financial transactions and telecommunication systems. In this case, mutual consistency is relaxed and the concept of freshness is used to measure the deviation ...

Keywords: Data replication, Distributed databases, Performance evaluation

3 Location-based services and mobile computing: algorithms: Prioritized sequencing for efficient query on broadcast geographical information in mobile-computing
Jianting Zhang, Le Gruenwald
November 2002 **Proceedings of the 10th ACM international symposium on Advances in**

geographic information systems

Publisher: ACM Press

Full text available: pdf(246.72 KB) Additional Information: full citation, abstract, references, citings, index terms

Broadcasting is an effective and efficient way to disseminate public geographical information to massive users. In this paper, we use R-tree to index broadcast geographical data. Based on our observation that geographical data and their accesses are often concentrated (clustered) in real applications, we propose a novel prioritized sequencing method by considering access frequencies based on application semantics to reduce average access time (latency). The key idea is to put "hot" data items ah ...

Keywords: data broadcast, geographical information, mobile computing, prioritized sequencing, query processing

4 An optimal parallel algorithm for learning DFA

José L. Balcázar, Josep Díaz, Ricard Gavaldà, Osamu Watanabe

July 1994 **Proceedings of the seventh annual conference on Computational learning theory**

Publisher: ACM Press

Full text available: pdf(781.34 KB) Additional Information: full citation, abstract, references, citings, index terms

Sequential algorithms given by Alguin (1987) and Schapire (1992) learn deterministic finite automata (dfa) exactly from Membership and Equivalence queries. These algorithms are feasible, in the sense that they take time polynomial in n and m, where n is the number of states of the automaton and m is the length of the longest counterexample to an Equivalence query. This paper studies whether parallelism can lead to substanti ...

5 Trade-offs for fully dynamic transitive closure on DAGs: breaking through the $O(n^2$ barrier

Camil Demetrescu, Giuseppe F. Italiano

March 2005 **Journal of the ACM (JACM)**, Volume 52 Issue 2

Publisher: ACM Press

Full text available: pdf(105.36 KB) Additional Information: full citation, abstract, references, index terms

We present an algorithm for directed acyclic graphs that breaks through the $O(n^2)$ barrier on the single-operation complexity of fully dynamic transitive closure, where n is the number of edges in the graph. We can answer queries in $O(n^{\epsilon})$ worst-case time and perform updates in $O(n^{\omega(1,\epsilon,1)-\epsilon}+n^{1+\epsilon})$ worst-case time, for any $\epsilon\in[0,1]$, wh ...

Keywords: Dynamic graph algorithms, transitive closure

6 Research track paper: Query chains: learning to rank from implicit feedback

Filip Radlinski, Thorsten Joachims

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(572.84 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel approach for using clickthrough data to learn ranked retrieval functions for web search results. We observe that users searching the web often perform a sequence, or chain, of queries with a similar information need. Using query chains, we generate new types of preference judgments from search engine logs, thus taking advantage of user intelligence in reformulating queries. To validate our method we

perform a controlled user study comparing generated preference judgme ...

Keywords: clickthrough data, implicit feedback, machine learning, search engines, support vector machines

7 Description and performance analysis of signature file methods for office filing

Christos Faloutsos, Stavros Christodoulakis

July 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Signature files have attracted a lot of interest as an access method for text and specifically for messages in the office environment. Messages are stored sequentially in the message file, whereas their hash-coded abstractions (signatures) are stored sequentially in the signature file. To answer a query, the signature file is examined first, and many nonqualifying messages are immediately rejected. In this paper we examine the problem of designing signature extraction methods and studying t ...

8 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

9 Investigations in tree locking for compiled database applications

Heng Yu, Grant E. Weddell

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(273.86 KB) Additional Information: full citation, abstract, references, index terms

We report on initial research in tree locking (TL) schemes for compiled database applications. Such applications have a repository style of architecture in which a collection of software modules operate on a common database in terms of a set of predefined transaction types, an architectural view that is also useful for embedded control programs. Since TL schemes are deadlock free, it becomes possible to entirely decouple concurrency control from any functionality relating to recovery. This pr ...

10 Physical storage structures: A dynamic clustering technique for physical database design

J. M. Chang, K. S. Fu

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80**

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

In this study, a technique of performing multiple attribute clustering in dynamic databases

has been investigated. We have transformed the problem of performing multiple attribute clustering into a problem of dynamically partitioning the attribute space. The optimal number of partitioning of the attribute space in a dynamic database environment has been analyzed, the partitioning direction is controlled by a discriminator sequence. The design of the discriminator sequence to obtain the optimal p ...

11 REQUEST II — a distributed database system for local area networks
Marek Rusinkiewicz, Dimitrios Georgakopoulos
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.02 MB) Additional Information: full citation, references, index terms

12 A new algorithm for the reduction of incompletely specified finite state machines
Jorge M. Pena, Arlindo L. Oliveira
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**
Publisher: ACM Press
Full text available: pdf(948.14 KB) Additional Information: full citation, references, citings, index terms

13 TRBAC: A temporal role-based access control model
Elisa Bertino, Piero Andrea Bonatti, Elena Ferrari
August 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(355.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Role-based access control (RBAC) models are receiving increasing attention as a generalized approach to access control. Roles may be available to users at certain time periods, and unavailable at others. Moreover, there can be temporal dependencies among roles. To tackle such dynamic aspects, we introduce Temporal-RBAC (TRBAC), an extension of the RBAC model. TRBAC supports periodic role enabling and disabling---possibly with individual exceptions for particular users---and temporal dependencies ...

Keywords: Role triggers, role-based access control, temporal constraints

14 Efficient processing of window queries in the pyramid data structure
Walid G. Aref, Hanan Samet
April 1990 **Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(882.76 KB) Additional Information: full citation, abstract, references, citings, index terms

Window operations serve as the basis of a number of queries that can be posed in a spatial database. Examples of these window-based queries include the exist query (i.e., determining whether or not a spatial feature exists inside a window) and the report query, (i.e., reporting the identity of all the features that exist inside a window). Algorithms are described for answering window queries in &Ogr;(n log logT) time for a window of size

15 Set-based vector model: An efficient approach for correlation-based ranking
Bruno Pôssas, Nivio Ziviani, Wagner Meira, Berthier Ribeiro-Neto
October 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 4

Publisher: ACM Press
Full text available: pdf(800.89 KB) Additional Information: full citation, abstract, references, index terms

This work presents a new approach for ranking documents in the vector space model. The novelty lies in two fronts. First, patterns of term co-occurrence are taken into account and are processed efficiently. Second, term weights are generated using a data mining technique called association rules. This leads to a new ranking mechanism called the *set-based vector model*. The components of our model are no longer index terms but index termsets, where a termset is a set of index terms. Termset ...

Keywords: Information retrieval models, association rule mining, correlation-based ranking, data mining, weighting index term co-occurrences

16 Categorization and classification: SimFusion: measuring similarity using unified relationship matrix

Wensi Xi, Edward A. Fox, Weiguo Fan, Benyu Zhang, Zheng Chen, Jun Yan, Dong Zhuang
August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**
Publisher: ACM Press
Full text available: pdf(334.81 KB) Additional Information: full citation, abstract, references, index terms

In this paper we use a Unified Relationship Matrix (***URM***) to represent a set of heterogeneous data objects (e.g., web pages, queries) and their interrelationships (e.g., hyperlinks, user click-through sequences). We claim that iterative computations over the ***URM*** can help overcome the data sparseness problem and detect latent relationships among heterogeneous data objects, thus, can improve the quality of information applications that require com- bination of informatio ...

Keywords: information integration, information retrieval, simfusion

17 Issues in data stream management

Lukasz Golab, M. Tamer Özsu
June 2003 **ACM SIGMOD Record**, Volume 32 Issue 2
Publisher: ACM Press
Full text available: pdf(195.61 KB) Additional Information: full citation, abstract, references, citings

Traditional databases store sets of relatively static records with no pre-defined notion of time, unless timestamp attributes are explicitly added. While this model adequately represents commercial catalogues or repositories of personal information, many current and emerging applications require support for on-line analysis of rapidly changing data streams. Limitations of traditional DBMSs in supporting streaming applications have been recognized, prompting research to augment existing technolog ...

18 Self-indexing inverted files for fast text retrieval

Alistair Moffat, Justin Zobel
October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(484.52 KB) Additional Information: full citation, abstract, references, citings, index terms

Query-processing costs on large text databases are dominated by the need to retrieve and scan the inverted list of each query term. Retrieval time for inverted lists can be greatly reduced by the use of compression, but this adds to the CPU time required. Here we show that the CPU component of query response time for conjunctive Boolean queries and for informal ranked queries can be similarly reduced, at little cost in terms of storage, by the

inclusion of an internal index in each compress ...

19 Evaluating implicit measures to improve web search

Steve Fox, Kuldeep Karnawat, Mark Mydland, Susan Dumais, Thomas White
April 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 2
Publisher: ACM Press
Full text available: pdf(2.52 MB) Additional Information: full citation, abstract, references, index terms

Of growing interest in the area of improving the search experience is the collection of implicit user behavior measures (implicit measures) as indications of user interest and user satisfaction. Rather than having to submit explicit user feedback, which can be costly in time and resources and alter the pattern of use within the search experience, some research has explored the collection of implicit measures as an efficient and useful alternative to collecting explicit measure of interest from u ...

Keywords: Implicit measures, explicit feedback, explicit ratings, prediction model, search sessions, user interest, user satisfaction

20 Data integration and sharing II: Scientific data repositories: designing for a moving target

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(739.27 KB) Additional Information: full citation, abstract, references, citings, index terms

Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

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1 Improved labeling scheme for ancestor queries

Stephen Alstrup, Theis Rauhe

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(669.45 KB) Additional Information: full citation, abstract, references, citings

We present a labeling scheme for rooted trees that supports ancestor queries. Given a tree, the scheme assigns to each node a label which is a binary string. Given the labels of any two nodes u and v, it can in constant time be determined whether u is ancestor to v alone from these labels. For trees of size n our scheme assigns labels of size bounded by $\log n + O(\sqrt{\log n})$ bits to each node. This improves a recent result of Abiteboul, Kaplan a ...

2 Location awareness and moving objects: Efficient placement of geographical data over broadcast channel for spatial range query under quadratic cost model

Jianting Zhang, Le Gruenwald

September 2003 **Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access**

Publisher: ACM Press

Full text available: pdf(326.37 KB) Additional Information: full citation, abstract, references, index terms

Data broadcasting is well known for its excellent scalability. Most geographical data, such as weather and traffic, is public information that has a large amount of potential users which makes it very suitable for broadcast. The query response time is greatly affected by the order in which data items are being broadcast. This paper proposes an efficient method to place geographical data items over broadcast channel that reduces access time for spatial range queries on them. This paper then perfo ...

Keywords: cost model, data broadcast, geographical information, mobile computing, optimization, query processing

3 Expressing and optimizing sequence queries in database systems

Reza Sadri, Carlo Zaniolo, Amir Zarkesh, Jafar Adibi

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: Additional Information:

pdf(427.23 KB) full citation, abstract, references, index terms

The need to search for complex and recurring patterns in database sequences is shared by many applications. In this paper, we investigate the design and optimization of a query language capable of expressing and supporting efficiently the search for complex sequential patterns in database systems. Thus, we first introduce SQL-TS, an extension of SQL to express these patterns, and then we study how to optimize the queries for this language. We take the optimal text search algorithm of Knuth, Morr ...

Keywords: Time series, query optimization, searching, sequences

4 Location-based services and mobile computing: algorithms: Prioritized sequencing for efficient query on broadcast geographical information in mobile-computing

Jianting Zhang, Le Gruenwald

November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(246.72 KB) Additional Information: full citation, abstract, references, citings, index terms

Broadcasting is an effective and efficient way to disseminate public geographical information to massive users. In this paper, we use R-tree to index broadcast geographical data. Based on our observation that geographical data and their accesses are often concentrated (clustered) in real applications, we propose a novel prioritized sequencing method by considering access frequencies based on application semantics to reduce average access time (latency). The key idea is to put "hot" data items ah ...

Keywords: data broadcast, geographical information, mobile computing, prioritized sequencing, query processing

5 Web services and performance evaluation: Indexing web access-logs for pattern queries

Alexandros Nanopoulos, Yannis Manolopoulos, Maciej Zakrzewicz, Tadeusz Morzy

November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(187.24 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we develop a new indexing method for large web access-logs. We are concerned with pattern queries, which advocate the search for access sequences that contain certain query patterns. This kind of queries find applications in processing web-log mining results (e.g., finding typical/atypical access-sequences). The proposed method focuses on scalability to web-logs' sizes. For this reason, we examine the gains due to signature-trees, which can further improve the scalability to very ...

6 Web mining and clustering: FS-Miner: efficient and incremental mining of frequent sequence patterns in web logs

Maged El-Sayed, Carolina Ruiz, Elke A. Rundensteiner

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(333.87 KB) Additional Information: full citation, abstract, references, index terms

Mining frequent patterns is an important component of many prediction systems. One common usage in web applications is the mining of users' access behavior for the purpose

of predicting and hence pre-fetching the web pages that the user is likely to visit.

In this paper we introduce an efficient strategy for discovering frequent patterns in sequence databases that requires only two scans of the database. The first scan obtains support counts for subsequences of length two. The second s ...

Keywords: frequent patterns, incremental mining, prediction, prefetching, sequence mining, traversal patterns, web logs, web usage mining

7 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

8 Sequence Mining: Prefix-querying: an approach for effective subsequence matching under time warping in sequence databases

Sanghyun Park, Sang-Wook Kim, June-Suh Cho, Sriram Padmanabhan

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses an index-based *subsequence* matching that supports time warping in large sequence databases. Time warping enables finding sequences with similar patterns even when they are of different lengths. In our earlier work, we suggested an efficient method for *whole* matching under time warping. This method constructs a multi-dimensional index on a set of feature vectors, which are invariant to time warping, from data sequences. For filtering at feature space, it also ap ...

Keywords: indexing technique, prefix querying, sequence database, similarity search, subsequence matching, time warping

9 Extracting key semantic terms from Chinese speech query for web searches

Gang Wang, Tat-Seng Chua, Yong-Cheng Wang

July 2003 **Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 1 ACL '03**

Publisher: Association for Computational Linguistics

Full text available: pdf(201.60 KB) Additional Information: full citation, abstract, references

This paper discusses the challenges and proposes a solution to performing information retrieval on the Web using Chinese natural language speech query. The main contribution of this research is in devising a divide-and-conquer strategy to alleviate the speech recognition errors. It uses the query model to facilitate the extraction of main core semantic string (CSS) from the Chinese natural language speech query. It then breaks the CSS into basic components corresponding to phrases, and uses a mu ...

10 Special issue in parallelism in database systems: Query processing and inverted indices in shared: nothing text document information retrieval systems

Anthony Tomasic, Hector Garcia-Molina

July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings

The performance of distributed text document retrieval systems is strongly influenced by the organization of the inverted text. This article compares the performance impact on query processing of various physical organizations for inverted lists. We present a new probabilistic model of the database and queries. Simulation experiments determine those variables that most strongly influence response time and throughput. This leads to a set of design trade-offs over a wide range of hardware configur ...

Keywords: file organization, full text information retrieval, inverted file, inverted index, performance, query processing, shared-nothing, striping

11 On the Length of Programs for Computing Finite Binary Sequences

Gregory J. Chaitin

October 1966 **Journal of the ACM (JACM)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, citings, index terms

The use of Turing machines for calculating finite binary sequences is studied from the point of view of information theory and the theory of recursive functions. Various results are obtained concerning the number of instructions in programs. A modified form of Turing machine is studied from the same point of view. An application to the problem of defining a patternless sequence is proposed in terms of the concepts here developed.

12 Performance Workload Char. and Adaptation: Improving web performance by client characterization driven server adaptation

Balachander Krishnamurthy, Craig E. Wills

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(241.76 KB) Additional Information: full citation, abstract, references, citings, index terms

We categorize the set of clients communicating with a server on the Web based on information that can be determined by the server. The Web server uses the information to direct tailored actions. Users with poor connectivity may choose not to stay at a Web site if it takes a long time to receive a page, even if the Web server at the site is not the bottleneck. Retaining such clients may be of interest to a Web site. Better connected clients can receive enhanced representations of Web pages, such ...

Keywords: client characterization, client connectivity, server adaptation

13 Analysis of navigation behaviour in web sites integrating multiple information systems
Bettina Berendt, Myra Spiliopoulou
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(281.14 KB) Additional Information: full citation, abstract, citings, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

14 Model and verification of a data manager based on ARIES
Dean Kuo
December 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(813.93 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In this article, we model and verify a data manager whose algorithm is based on ARIES. The work uses the I/O automata method as the formal model and the definition of correctness is defined on the interface between the scheduler and the data manager.

Keywords: ARIES, I/O automata, system failures

15 Reducing recovery constraints on locking based protocols
G. Alonso, D. Agrawal, A. El Abbadi
May 1994 **Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(945.81 KB) Additional Information: full citation, abstract, references, citings, index terms

Serializability is the standard correctness criterion for concurrency control. To ensure correctness in the presence of failures, recoverability is also imposed. Pragmatic considerations result in further constraints, for instance, the existing log-based recovery implementations that use before-images warrant that transaction executions be strict. Strict executions are restrictive, thus sacrificing concurrency and throughput. In this paper we identify the relation between the recovery mecha ...

16 Browsing and querying in online documentation: a study of user interfaces and the interaction process
Morten Hertzum, Erik Frøkjær
June 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(340.16 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A user interface study concerning the usage effectiveness of selected retrieval modes was conducted using an experimental text retrieval system, TeSS, giving access to online

documentation of certain programming tools. Four modes of TeSS were compared: (1) browsing, (2) conventional boolean retrieval, (3) boolean retrieval based on Venn diagrams, and (4) these three combined. Further, the modes of TeSS were compared to the use of printed manuals. The subjects observed were 87 computing new ...

Keywords: documentation, interaction process, online manuals, usage effectiveness

17 Non-oblivious hashing

Amos Fiat, Moni Naor, Jeanette Schmidt, Alan Siegel

January 1988 **Proceedings of the twentieth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(990.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Non-oblivious hashing, where the information gathered by performing "unsuccessful" probes determines the probe strategy, is introduced and used to obtain the following results for static lookup on full tables: An &Ogr;(1) worst case scheme that requires only logarithmic additional memory (improving on the [FKS84] linear space upper bound). An almost sure &Ogr;(1) probabilistic worst case scheme, without ...

18 Digital filters in adaptive time-stepping

Gustaf Söderlind

March 2003 **ACM Transactions on Mathematical Software (TOMS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(529.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Adaptive time-stepping based on linear digital control theory has several advantages: the algorithms can be analyzed in terms of stability and adaptivity, and they can be designed to produce smoother stepsize sequences resulting in significantly improved regularity and computational stability. Here, we extend this approach by viewing the closed-loop transfer map *H*ϕ : logϕ ↦ log *h* as a digital filter, processing the signal logϕ (the principal error func ...

Keywords: Adaptivity, algorithm analysis, control theory, digital filters, error control, mathematical software, stepsize control

19 A mobile transaction model that captures both the data and movement behavior

Margaret H. Dunham, Abdelsalam Helal, Santosh Balakrishnan

October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(339.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Unlike distributed transactions, mobile transactions do not originate and end at the same site. The implication of the movement of such transactions is that classical atomicity, concurrency and recovery solutions must be revisited to capture the movement behavior. As an effort in this direction, we define a model of mobile transactions by building on the concepts of split transactions and global transactions in a multidatabase environment. Our view of mobile transactions, called Kangaroo Tr ...

20 Propagation of authorizations in distributed database systems

Pierangela Samarati, Paul Ammann, Sushil Jajodia

November 1994 **Proceedings of the 2nd ACM Conference on Computer and**

communications security

Publisher: ACM Press

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider the propagation of authorizations in distributed database systems. If no constraints are imposed on the propagation of authorization changes, then the authorization states at different sites may evolve inconsistently. A standard solution is to suppress the distributed aspect and make all changes appear as if they had occurred in some serial order at a single site, perhaps via an atomic commit protocol. However, rigid insistence on consistency may result in authorization changes ...

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The uid is the User ID that is to be used to **log** in to the datasource. ...
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string, $max_rows, Number maximum of rows to display, for the limit **sequence** of the SQL Query. array, $metadata, MetaData about the SQL **Query, table** name, ...
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If any **sequence** is excluded by any bar criterion, it will be removed from ...
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How to cheat the SDK so that the bot has an up to date **query table**, ... It turned out later that if you fill the bot's **sequence** with -1 - no query will ...
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